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* * * * * * * * *   Welcome to STN International * * * * * * * * * *

 NEWS 1   Web Page for STN Seminar Schedule – N. America
 NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40
                 minutes
 NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source
                 (CS) field
 NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
 NEWS 5 AUG 24 CA/CAplus enhanced with legal status information for
                 U.S. patents
 NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
                 CAS REGISTRY
 NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
                 thesaurus
 NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
                 Taiwanese Content Expanded
 NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
                 translated claims for Chinese Applications and
                 Utility Models
 NEWS 10 OCT 27 Free display of legal status information in CA/CAplus,
                 USPATFULL, and USPAT2 in the month of November.

 NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
            AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

 NEWS HOURS   STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN   Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.22   0.22

FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 NOV 2009   HIGHEST RN 1192409-16-7
DICTIONARY FILE UPDATES: 15 NOV 2009   HIGHEST RN 1192409-16-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10572341a.str
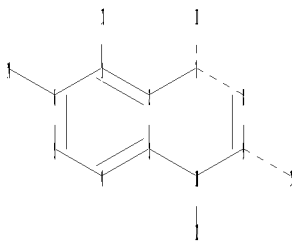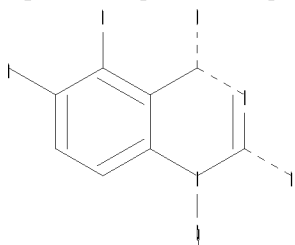
chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9 10 13 14
ring/chain nodes :
15
chain bonds :
7-11 9-15 10-12
ring bonds :
1-2 1-6 1-13 2-3 2-7 3-4 3-10 4-5 5-6 6-14 7-8 8-9 9-10
exact/norm bonds :
1-13 2-7 3-10 6-14 7-8 7-11 8-9 9-10 9-15 10-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
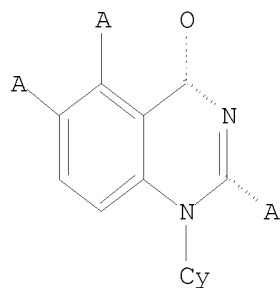11:CLASS 12:Atom 13:Atom 14:Atom 15:CLASS

L1   STRUCTURE UPLOADED

```
=> d L1
L1 HAS NO ANSWERS
L1                    STR
```
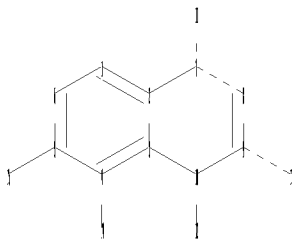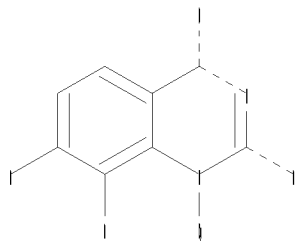

Structure attributes must be viewed using STN Express query preparation.

```
=>
Uploading C:\Program Files\Stnexp\Queries\10572341b.str
```



```
chain nodes :
11  12
ring nodes :
1  2  3  4  5  6  7  8  9  10  14  15
ring/chain nodes :
13
chain bonds :
7-11  9-13  10-12
ring bonds :
1-2  1-6  2-3  2-7  3-4  3-10  4-5  4-14  5-6  5-15  7-8  8-9  9-10
exact/norm bonds :
2-7  3-10  4-14  5-15  7-8  7-11  8-9  9-10  9-13  10-12
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
```

```
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:CLASS  12:Atom  13:CLASS  14:Atom  15:Atom
```
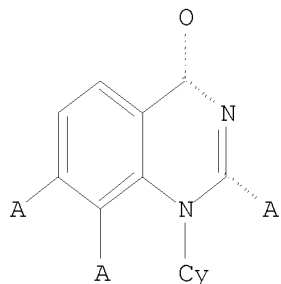
L2   STRUCTURE UPLOADED

```
=> d L2
```

10/ 572,341

L2 HAS NO ANSWERS
L2   STR

```
                O
                |
        _____
       /           N
      |             \
      |              A
       \            /
   A    _____/
           N
           |
        A  Cy
```

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 14:13:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1882193 TO ITERATE

100.0% PROCESSED 1882193 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.16

L3   6 SEA SSS FUL L1

=> s l2 full
FULL SEARCH INITIATED 14:14:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1882193 TO ITERATE

100.0% PROCESSED 1882193 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.13

L4   0 SEA SSS FUL L2

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   373.20   373.42

FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009
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FILE COVERS 1907 - 17 Nov 2009 VOL 151 ISS 21
FILE LAST UPDATED: 16 Nov 2009 (20091116/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

During November, try the new LSUS format of legal status information
in the CA/CAplus family databases for free! Complete details on the
number of free displays and other databases participating in this
offer appear in NEWS 10.

=> d his

```
     (FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009)

     FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009
L1            STRUCTURE UPLOADED
L2            STRUCTURE UPLOADED
L3         6 S L1 FULL
L4         0 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009

=> s l3
L5            1 L3

=> d L5 ibib abs hitstr
```

L5   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:572704 CAPLUS
DOCUMENT NUMBER: 129:312244
ORIGINAL REFERENCE NO.: 129:63632h,63633a
TITLE: Benzoquinazoline Derivatives as Substitutes for
                         Thymine in Nucleic Acid Complexes. Use of Fluorescence
                         Emission of Benzo[g]quinazoline-2,4-(1H,3H)-dione in
                         Probing Duplex and Triplex Formation
AUTHOR(S):   Godde, Frederic; Toulme, Jean-Jacques; Moreau, Serge
CORPORATE SOURCE: IFR Pathologies Infectieuses, Universite Victor
                         Segalen, Bordeaux, 33076, Fr.
SOURCE: Biochemistry (1998), 37(39), 13765-13775
                         CODEN: BICHAW; ISSN: 0006-2960
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S):   CASREACT 129:312244
AB   Triple helix formation obeys structural features that do not allow
     accommodation of every double-stranded sequence; it requires the
     occurrence of homopurine stretches. A further constraint comes from the
     weak energy of interaction between the third strand and the
     double-stranded target. In an attempt to design bases leading to
     increased stability of triplexes, we explored the ability of modified
     bases with an extended aromatic domain to increase third strand binding
     through stacking interactions. We report here the use of benzo[g]- and
     benzo[f]quinazoline-2,4-dione-(1H,3H)-dione as substitutes for thymine in

the canonical TA*T triplet. The synthesis and characterization of the
β nucleoside derivs. of benzoquinazolines are described.
Triplex-forming oligonucleotides containing these modified bases have been
prepared, and their ability to form triplexes has been evaluated by UV
absorption-monitored thermal denaturation measurements.
Benzo[g]quinazoline and benzo[f]quinazoline formed triple-stranded
structures with slightly decreased stabilities. In addition,
benzo[g]quinazoline revealed strong fluorescence emission properties which
can be used to monitor selectively the formation of triple-helical
structures. Annealing of benzo[g]quinazoline to complementary strands did
not produce any fluorescence modification. But when it was introduced
into the Hoogsteen strand of PyPu*Py complexes, the fluorescence intensity
was reduced and the emission maximum was shifted to short wavelengths.
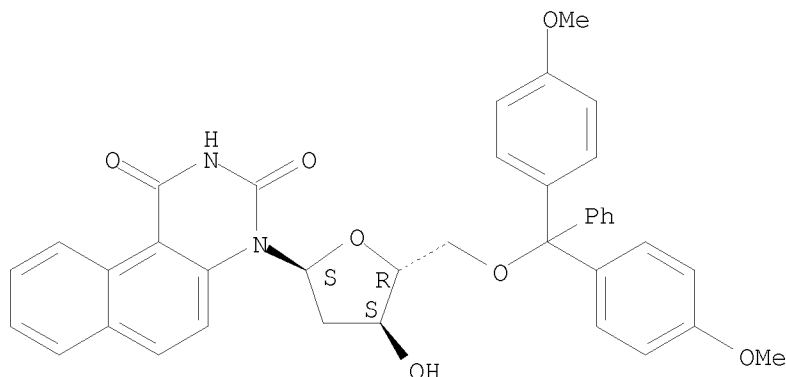IT   214492-91-8P
     RL: BYP (Byproduct); PREP (Preparation)
        (preparation of benzoquinazoline derivs. as substitutes for thymine in
        nucleic acid complexes for probing duplex and triplex formation)
RN   214492-91-8 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
     4-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-α-D-erythro-
     pentofuranosyl]- (CA INDEX NAME)

Absolute stereochemistry.

IT   214492-85-0P   214492-87-2P   214492-89-4P
     214492-95-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
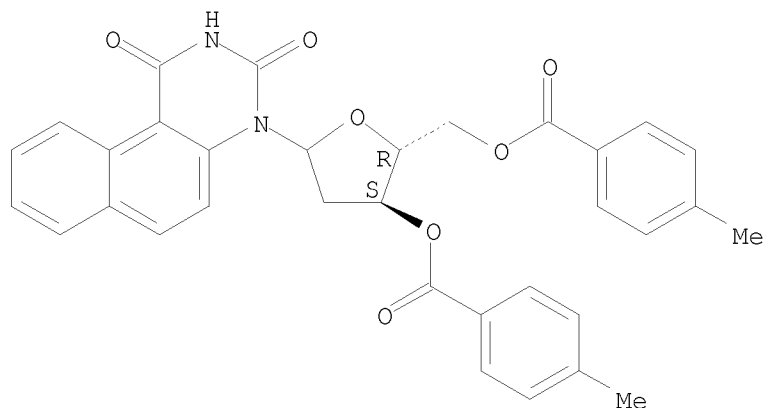   (Reactant or reagent)
        (preparation of benzoquinazoline derivs. as substitutes for thymine in
        nucleic acid complexes for probing duplex and triplex formation)
RN   214492-85-0 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
     4-[2-deoxy-3,5-bis-O-(4-methylbenzoyl)-D-erythro-pentofuranosyl]- (CA
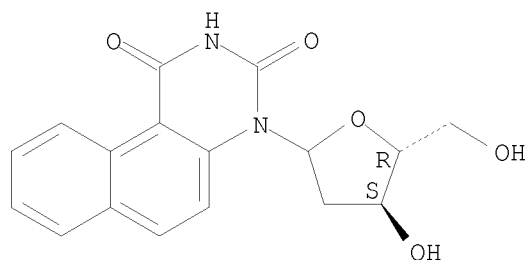   INDEX NAME)

Absolute stereochemistry.
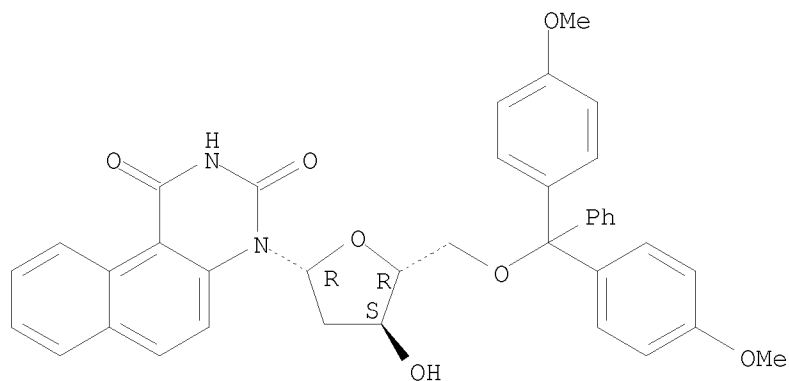
RN   214492-87-2 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
      4-(2-deoxy-D-erythro-pentofuranosyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN   214492-89-4 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
      4-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-β-D-erythro-
      pentofuranosyl]- (CA INDEX NAME)

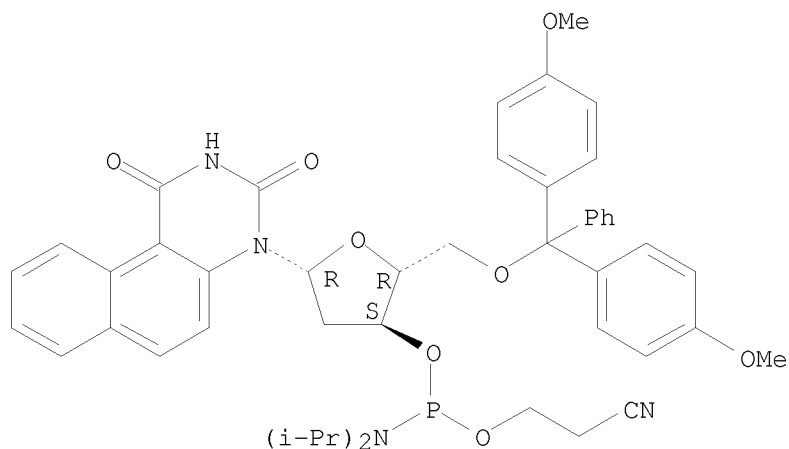Absolute stereochemistry.

RN   214492-95-2 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
      4-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-
      cyanoethoxy)phosphino]-2-deoxy-β-D-erythro-pentofuranosyl]- (CA

INDEX NAME)

Absolute stereochemistry.

OMe

IT   214492-93-0P
      RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of benzoquinazoline derivs. as substitutes for thymine in
          nucleic acid complexes for probing duplex and triplex formation)
RN   214492-93-0 CAPLUS
CN   Benzo[f]quinazoline-1,3(2H,4H)-dione,
      4-(2-deoxy-β-D-erythro-pentofuranosyl)- (CA INDEX NAME)

Absolute stereochemistry.
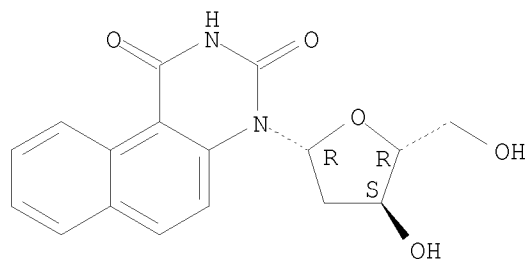
OS.CITING REF COUNT: 38   THERE ARE 38 CAPLUS RECORDS THAT CITE THIS
                                 RECORD (39 CITINGS)
REFERENCE COUNT: 43   THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

      (FILE 'HOME' ENTERED AT 14:11:44 ON 17 NOV 2009)

      FILE 'REGISTRY' ENTERED AT 14:11:57 ON 17 NOV 2009
L1   STRUCTURE UPLOADED
L2   STRUCTURE UPLOADED
L3   6 S L1 FULL
L4   0 S L2 FULL

      FILE 'CAPLUS' ENTERED AT 14:14:55 ON 17 NOV 2009

L5   1 S L3

=> log y
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   XXXXXXXXXXXXXXX

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE   TOTAL
                                              ENTRY   SESSION
CA SUBSCRIBER PRICE   -0.82   -0.82

STN INTERNATIONAL LOGOFF AT 14:15:26 ON 17 NOV 2009